ELSEVIER

Thin Solid Films 288 (1996) 347–348

thin solid films

Author Index of Volume 288

Acosta, D.R., 1
Adamchuk, V.K., 182
Addonizio, M.L., 90
Afanasyeva, N.I., 57
Afonso, C.N., 186
Ahmed, S., 108
Ahn, B.T., 41
Ahn, J., 155
Aida, M.S., 83
Amioka, T., 300
Amons, P.S., 279
Antonaia, A., 90
Azéma, A., 248

Baek, J.T., 41
Baik, H.-K., 309
Barna, A., 171
Barna, P.B., 171
Baumann, M., 239
Belgacem, S., 217
Bendale, D.M., 120
Bernède, J.C., 14
Berzina, T.I., 262
Bévierre, M.-O., 239
Bhagat, S.M., 256
Bhattacharyya, D., 176
Bhuiyan, A.H., 108
Bibić, N., 212
Boccara, A.C., 125
Bogdanova, N., 239
Bonhomme, P., 86
Bradley, M., 268
Brehmer, L., 287
Briskin, G., 132
Bruins Slot, A., 279
Buhre, K.D., 217
Burghard, M., 272

Cao, Z., 95
Carter, M.J., 176
Celis, J.P., 202
Cella, N., 125
Chakrabarti, R., 32
Chandra, S., 112
Chang, S.-Y., 36
Charreire, Y., 21
Chaudhuri, S., 32
Cheeks, T., 29
Clare, B.W., 76
Combot-Marie, A.M., 14
Comes, F.J., 337
Conan, A., 14
Contreras, O., 29
Cornish, J.C.L., 76
Cortes, R., 21
Coutal, C., 248
Cowache, P., 217
Cui, H.-N., 325

Dachraoui, M., 217
Depas, M., 64
Diaz, J.A., 29
Dobson, P.J., 235
Dominguez, M., 256
Doole, R.C., 186
Dorsch, W., 160
Dultsev, F.N., 103
Duparré, A., 8
Dutta, J., 32
Dyer, S.E., 279

Einsiedel, H., 150, 243
El Rhaleb, H., 125
Estrada, W., 1

Fabis, P.M., 193
Fix, R., 116
Fournier, D., 125
Frübing, P., 287
Fujiki, S., 45

Gao, Q., 291
Garreau, Y., 272
Giannini, C., 272
Gordon, R.G., 116
Gotoh, Y., 300
Granqvist, C.G., 330
Gregory, O.J., 279
Gu, M., 95

Halle, O., 150
Harp, G.R., 315
Hashimoto, M., 45, 171
Hefter, G.T., 76
Hirata, G.A., 29
Hoffman, D.M., 116
Höpfner, U., 287
Hu, C.C., 147
Huang, C.H., 296
Hull, P.J., 235
Hutchison, J.L., 235

Ibrahim, M., 108
Ishikawa, J., 300
Isshiki, Y., 45
Itoh, S., 45

Jedrecy, N., 272
Jennings, P.J., 76
Ji, R., 155
Jiang, D., 291

Kadyshevitch, A., 139
Kamalasanan, M.N., 112
Kameda, H., 229
Kameyama, K., 300
Kaminorz, Y., 287
Kang, S.W., 41
Kashani, H., 50
Kawamura, T., 99
Kinoshita, H., 99
Kirsten, A., 198
Knoll, W., 150
Kohga, M., 45
Konovalov, O.V., 262
Kullman, L., 330
Kunst, R., 217
Kwak, J.-S., 309
Kwon, C., 256

Lee, M.K., 147
Lee, W.B., 224
Lenski, M., 337
Lin, C., 95
Lin, K.-L., 36
Lin, M.H., 147
Lincot, D., 21, 217
Lofland, S.E., 256
Lohner, K., 262
Lopez, O.A., 29
Loreti, S., 90
Lu, Z., 334
Lund, C.P., 76
Lyubinetsky, I.V., 182

Maity, A.B., 32
Makdisi, Y., 69
Marsillac, S., 14
Mathew, X., 69
McKittrick, J., 29
Meherzi-Maghraoui, H., 217
Menges, B., 150
Metrot, A., 86
Milis, S., 202
Milne, W.I., 155
Missana, T., 186
Mittler-Neher, S., 150, 243
Mokili, B., 21
Montoya, E., 1
Müllen, K., 150
Myagkov, I.V., 262

Naaman, R., 139
Nenadović, T., 212
Neumann, W., 287

Oettel, H., 198
Ouyang, M., 296

Pal, A.K., 32
Palmer, R.E., 164
Park, H.-H., 41
Parkin, S.S.P., 315
Patil, P.V., 120
Paul, S., 150
Pelleg, J., 132
Peruško, D., 212
Petford-Long, A.K., 186
Pietzsch, C., 198
Pinchaux, R., 272
Porter, T.L., 268
Prosini, P.P., 90
Puri, R.K., 120
Puri, V., 120

Qiu, H., 171

Rahmane, S., 83
Rakhshani, A.E., 69
Rakočević, Z., 212
Ramesh, R., 256
Robson, M.C., 256
Roger, J.P., 125
Rönnow, D., 330
Roth, S., 272
Roustan, J.-C., 248
Ruppe, C., 8

Sabesan, S., 235
Salata, O.V., 235
Samoilenko, I.I., 262
Santjojo, D.J., 76
Sauvage-Simkin, M., 272
Shah Jalal, A.B.M., 108
Sharpe, R.G., 164
Shen, J., 291
Shim, J.-Y., 309
Siqueiros, J.M., 29
Sobolevsky, M.V., 57
Steiner, B., 160
Štrbac, S., 212
Strunk, H.P., 160
Sun, C., 291
Sun, Y., 291
Sun, Z., 224
Sveshnikova, L.L., 103

Elsevier Science S.A.

Takenaka, H., 99
Takeuchi, I., 256
Talianker, M., 132
Talukder, M.O.G., 76
Tanaka, K., 229
Tapfer, L., 272
Thompson, D., 268
Tong, K.Y., 224
Tonova, D., 64
Trajanovic, Z., 256
Troitzky, V.I., 262
Troyon, M., 86
Tsuji, H., 300
Tyagi, S.D., 256

Usui, H., 229

Vanhellemont, J., 64
Vasiljev, V.A., 57
Venkatesan, T., 256
Véron, M.B., 272
Voigt, A., 160
Vorotilov, K.A., 57

Wagner, G., 160
Wang, D.-H., 254
Wang, G., 334
Wang, K.Z., 296
Wang, L., 86
Wei, Y., 334

Xi, S.-Q., 325
Xie, X., 239
Xu, H., 291
Xu, W., 95
Xue, Z.Q., 296

Yoo, I.J., 41
Yoon, S.F., 155
Yoshii, H., 300
Yuan, C., 334
Yu-Zhang, K., 86

Zhang, H.X., 296
Zhang, X., 291
Zheng, L., 95
Zironi, E.P., 1
Zuber, A., 125

ELSEVIER

Thin Solid Films 288 (1996) 349–353

thin solid films

Subject Index of Volume 288

Al_2O_3 thin films
refractive index and adhesion of Al_2O_3 thin films obtained from different processes — a comparative study, 120
Alloys
cladding of chromium onto mild steel by low-pressure laser spraying, 45
structural and electrical properties of Ni–Cu films deposited onto MgO(001) by d.c. biased plasma sputter deposition, 171
Aluminium
the morphologies and the chemical states of the multiple zincating deposits on Al pads of Si chips, 36
Amorphous materials
the effect of microwave power on the deposition of boron-doped a-SiC:H films using the electron cyclotron resonance method, 155
Annealing
experimental evidence of the low-temperature formation of γ-In_2Se_3 thin films obtained by a solid-state reaction, 14
lattice- vs. grain-boundary-controlled interdiffusion in Bi–Sb bilayer films, 186
defect distribution modification in CVD diamond by vacuum annealing, 193
Antifuse structure
investigation of link formation in a novel planar-type antifuse structure, 41
Antimony
lattice- vs. grain-boundary-controlled interdiffusion in Bi–Sb bilayer films, 186
a-Si:H
measurement of the striking force of Ar ions on the substrate during sputter deposition of a-Si:H thin films, 83
substrate temperature dependent photoelectrical and structural properties of a-Si:H deposited by hydrogen assisted chemical vapour deposition, 337
Atomic force microscopy
roughness analysis of optical films and substrates by atomic force microscopy, 8
Auger electron spectroscopy
interface formation during silicon deposition on noble metal substrates: A comparative AES study, 182

Biomaterials
preparation and structural analysis of Langmuir–Blodgett films of acidic and zwitterionic phospholipids, 262
Bismuth
lattice- vs. grain-boundary-controlled interdiffusion in Bi–Sb bilayer films, 186

Cadmium sulphide
effect of substrate on the structural and optical properties of chemical-bath-deposited CdS films, 176
preparation of nanoparticulate CdS films suitable for opto-electronic device applications, 235
the fabrication of dipped CdS and sputtered ITO thin films for photovoltaic solar cells, 325
Cadmium telluride
photoconductivity of CdTe films, 32
Carbides
the effect of microwave power on the deposition of boron-doped a-SiC:H films using the electron cyclotron resonance method, 155
Carbon
fabrication and evaluation of Ni/C multilayer soft X-ray mirrors, 99
Chemical vapour deposition
production and evaluation of ZnS thin films by the MOCVD technique as alpha-particle detectors, 50
low-temperature atmospheric-pressure metal–organic chemical vapor deposition of molybdenum nitride thin films, 116
defect distribution modification in CVD diamond by vacuum annealing, 193
substrate temperature dependent photoelectrical and structural properties of a-Si:H deposited by hydrogen assisted chemical vapour deposition, 337
Chromium
cladding of chromium onto mild steel by low-pressure laser spraying, 45
Coatings
sol–gel synthesis of ZnO thin films, 112
Mössbauer investigations of (Ti,Fe)N hard coatings, 198
investigation of the properties of NiP/Sn multilayers using a mechanical microprobe, 202
Cobalt
fabrication of a multilayer film containing cobalt phthalocyanine on the surface of a gold electrode based on electrostatic interaction and its application as an amperometric sensor of hydrazine, 291
solid state reactions in cobalt/amorphous-silicon multilayer thin films, 309
Conductivity
multiple conduction behavior of $BaRuO_3$ thin film prepared by pulsed laser ablation deposition, 95
the effect of microwave power on the deposition of boron-doped a-SiC:H films using the electron cyclotron resonance method, 155
evidence for field emission in electroformed metal–insulator–metal devices, 164
structural, optical and transport properties of Ag_2S films deposited chemically from aqueous solution, 217
Copper
electrodeposition of copper–indium alloy under diffusion-limiting current control, 90
structures and properties of copper thin films prepared by ion beam assisted deposition, 300
Co–Ta
phase formation between codeposited Co–Ta thin film and single-crystal silicon substrates, 132
Crystallization
experimental evidence of the low-temperature formation of γ-In_2Se_3 thin films obtained by a solid-state reaction, 14

Elsevier Science S.A.

polyvinylalcohol film doped with CuCl nanoclusters, 254
Cuprous oxide
deep energy levels and photoelectrical properties of thin cuprous oxide films, 69

Deposition process
extended X-ray absorption fine structure studies of zinc hydroxo-sulphide thin films chemically deposited from aqueous solution, 21
the morphologies and the chemical states of the multiple zincating deposits on Al pads of Si chips, 36
electrodeposition of copper–indium alloy under diffusion-limiting current control, 90
effect of substrate on the structural and optical properties of chemical-bath-deposited CdS films, 176
pulse deposition of Au on graphite, 212
structural, optical and transport properties of Ag_2S films deposited chemically from aqueous solution, 217
fabrication and characterization of ITO thin films deposited by excimer laser evaporation, 248
the fabrication of dipped CdS and sputtered ITO thin films for photovoltaic solar cells, 325
Diamond
beam size and collimation effects in spectroscopic ellipsometry of transparent films with optical thickness inhomogeneity, 125
defect distribution modification in CVD diamond by vacuum annealing, 193
Dielectric properties
polarization processes of poly(DMDAAC) films studied by thermally stimulated depolarization current, 287
Dielectrics
interpretation of spectroscopic ellipsometry measurements of ultrathin dielectric layers on silicon: impact of accuracy of the silicon optical constants, 64
Diffusion
formation of nanoclusters during the interaction of H_2S with cadmium, zinc and copper behenates, 103
lattice- vs. grain-boundary-controlled interdiffusion in Bi–Sb bilayer films, 186

Electrical properties and measurements
synthesis and optelectronic characterization of gallium doped zinc oxide transparent electrodes, 29
structure, properties and applications of phenyl-modified silicate films, 57
deep energy levels and photoelectrical properties of thin cuprous oxide films, 69
preparation and piezoresistive properties of reactively sputtered indium tin oxide thin films, 279
polarization processes of poly(DMDAAC) films studied by thermally stimulated depolarization current, 287
electrical switching and memory phenomena in the Ag-BDCP thin film, 296
structures and properties of copper thin films prepared by ion beam assisted deposition, 300
Electrochemistry
TEM study of electrodeposited Ni/Cu multilayers in the form of nanowires, 86
electrodeposition of copper–indium alloy under diffusion-limiting current control, 90
fabrication of a multilayer film containing cobalt phthalocyanine on the surface of a gold electrode based on electrostatic interaction and its application as an amperometric sensor of hydrazine, 291
elastic light scattering and electrochemical durability of electrochromic tungsten-oxide-based films, 330
Electron beam evaporation
refractive index and adhesion of Al_2O_3 thin films obtained from different processes — a comparative study, 120
Electron diffraction
preparation and structural analysis of Langmuir–Blodgett films of acidic and zwitterionic phospholipids, 262
Electronic devices
preparation of nanoparticulate CdS films suitable for opto-electronic device applications, 235
influence of the surface pressure of Langmuir–Blodgett films on the efficiency of organic electroluminescence, 334
Electron scattering
the interactions of electrons with organized organic films studied by photoelectron transmission, 139
Ellipsometry
interpretation of spectroscopic ellipsometry measurements of ultrathin dielectric layers on silicon: impact of accuracy of the silicon optical constants, 64
formation of nanoclusters during the interaction of H_2S with cadmium, zinc and copper behenates, 103
beam size and collimation effects in spectroscopic ellipsometry of transparent films with optical thickness inhomogeneity, 125
Epitaxy
structural and electrical properties of Ni–Cu films deposited onto MgO(001) by d.c. biased plasma sputter deposition, 171
epitaxial growth of metals by sputter deposition, 315

Field emission
evidence for field emission in electroformed metal–insulator–metal devices, 164
Fluorine
about the structural, optical and electrical properties of SnO_2 films produced by spray pyrolysis from solutions with low and high contents of fluorine, I
Fourier transform infrared spectroscopy
sol–gel synthesis of ZnO thin films, 112
Fourier transform infrared spectroscopy (FTIR)
extended X-ray absorption fine structure studies of zinc hydroxo-sulphide thin films chemically deposited from aqueous solution, 21

Hardness
investigation of the properties of NiP/Sn multilayers using a mechanical microprobe, 202
Heat treatment
UV–Vis absorption spectroscopic studies of plasma-polymerized m-xylene thin films, 108
Hydrogenated amorphous silicon
studies of photodegradation in hydrogenated amorphous silicon, 76
Hydrogen sulphide
formation of nanoclusters during the interaction of H_2S with cadmium, zinc and copper behenates, 103

Indium
electrodeposition of copper–indium alloy under diffusion-limiting current control, 90
Indium oxide
fabrication and characterization of ITO thin films deposited by excimer laser evaporation, 248
preparation and piezoresistive properties of reactively sputtered indium tin oxide thin films, 279
Inorganic compounds
the fabrication of dipped CdS and sputtered ITO thin films for photovoltaic solar cells, 325
InP
silicon doping of InP using modified flow rate modulation epitaxy, 147
Interfaces
fabrication and evaluation of Ni/C multilayer soft X-ray mirrors, 99
interface formation during silicon deposition on noble metal substrates: A comparative AES study, 182

Ion bombardment
ionization-assisted deposition of Alq_3 films, 229
structures and properties of copper thin films prepared by ion beam assisted deposition, 300
Ion plating
ionization-assisted deposition of Alq_3 films, 229

Langmuir–Blodgett films
formation of nanoclusters during the interaction of H_2S with cadmium, zinc and copper behenates, 103
scanning force microscope studies of Langmuir–Blodgett polyaniline thin films, 268
molecular packing in new Langmuir–Blodgett systems investigated by X-ray specular reflectivity and grazing incidence X-ray diffraction, 272
Langmuir–Blodgett films (LB films)
the interactions of electrons with organized organic films studied by photoelectron transmission, 139
influence of the surface pressure of Langmuir–Blodgett films on the efficiency of organic electroluminescence, 334
Laser ablation
synthesis and optelectronic characterization of gallium doped zinc oxide transparent electrodes, 29
multiple conduction behavior of $BaRuO_3$ thin film prepared by pulsed laser ablation deposition, 95
fabrication and characterization of ITO thin films deposited by excimer laser evaporation, 248
Laser irradiation
cladding of chromium onto mild steel by low-pressure laser spraying, 45
Light scattering
roughness analysis of optical films and substrates by atomic force microscopy, 8
Link formation
investigation of link formation in a novel planar-type antifuse structure, 41
Liquid phase epitaxy
growth and characterization of silicon layers grown by liquid phase epitaxy on cast silicon and silicon sheet material, 160
Luminescence
production and evaluation of ZnS thin films by the MOCVD technique as alpha-particle detectors, 50
ionization-assisted deposition of Alq_3 films, 229

Magnetic properties and measurements
surface resistance of thin Perovskite films — high-temperature superconductors and giant magnetoresistance manganites, 256
Manganese
surface resistance of thin Perovskite films — high-temperature superconductors and giant magnetoresistance manganites, 256
Metallization
structure, properties and applications of phenyl-modified silicate films, 57
Metal–organic chemical vapour deposition
silicon doping of InP using modified flow rate modulation epitaxy, 147
Metals
interface formation during silicon deposition on noble metal substrates: A comparative AES study, 182
Molybdenum
low-temperature atmospheric-pressure metal–organic chemical vapor deposition of molybdenum nitride thin films, 116
Mössbauer spectroscopy
Mössbauer investigations of (Ti,Fe)N hard coatings, 198
Multilayers
TEM study of electrodeposited Ni/Cu multilayers in the form of nanowires, 86
fabrication and evaluation of Ni/C multilayer soft X-ray mirrors, 99
investigation of the properties of NiP/Sn multilayers using a mechanical microprobe, 202
preparation and structural analysis of Langmuir–Blodgett films of acidic and zwitterionic phospholipids, 262
molecular packing in new Langmuir–Blodgett systems investigated by X-ray specular reflectivity and grazing incidence X-ray diffraction, 272
fabrication of a multilayer film containing cobalt phthalocyanine on the surface of a gold electrode based on electrostatic interaction and its application as an amperometric sensor of hydrazine, 291
solid state reactions in cobalt/amorphous-silicon multilayer thin films, 309
epitaxial growth of metals by sputter deposition, 315

Nanostructures
TEM study of electrodeposited Ni/Cu multilayers in the form of nanowires, 86
preparation of nanoparticulate CdS films suitable for opto-electronic device applications, 235
Nickel
fabrication and evaluation of Ni/C multilayer soft X-ray mirrors, 99
Nitrides
low-temperature atmospheric-pressure metal–organic chemical vapor deposition of molybdenum nitride thin films, 116
Nucleation
pulse deposition of Au on graphite, 212

Optical coatings
beam size and collimation effects in spectroscopic ellipsometry of transparent films with optical thickness inhomogeneity, 125
Optical properties
synthesis and optelectronic characterization of gallium doped zinc oxide transparent electrodes, 29
structure, properties and applications of phenyl-modified silicate films, 57
UV–Vis absorption spectroscopic studies of plasma-polymerized m-xylene thin films, 108
an anthracene-containing PMMA derivative for photoresist and channel waveguide applications, 150
effect of substrate on the structural and optical properties of chemical-bath-deposited CdS films, 176
structural, optical and transport properties of Ag_2S films deposited chemically from aqueous solution, 217
preparation of nanoparticulate CdS films suitable for opto-electronic device applications, 235
optical properties of phthalocyanine thin films synthesised in the solid state, 239
scanning photothermal beam deflection imaging with and without contrast inversion on polymers for integrated optical application, 243
polyvinylalcohol film doped with CuCl nanoclusters, 254
preparation and piezoresistive properties of reactively sputtered indium tin oxide thin films, 279
elastic light scattering and electrochemical durability of electrochromic tungsten-oxide-based films, 330
Optical spectroscopy
an anthracene-containing PMMA derivative for photoresist and channel waveguide applications, 150
polyvinylalcohol film doped with CuCl nanoclusters, 254
Optical thin films
roughness analysis of optical films and substrates by atomic force microscopy, 8
Organic substances
ionization-assisted deposition of Alq_3 films, 229
optical properties of phthalocyanine thin films synthesised in the solid state, 239

electrical switching and memory phenomena in the Ag-BDCP thin film, 296
Organometallic vapour deposition
low-temperature atmospheric-pressure metal–organic chemical vapor deposition of molybdenum nitride thin films, 116
Oxides
deep energy levels and photoelectrical properties of thin cuprous oxide films, 69
multiple conduction behavior of $BaRuO_3$ thin film prepared by pulsed laser ablation deposition, 95

Phase formation
phase formation between codeposited Co–Ta thin film and single-crystal silicon substrates, 132
Phase transitions
electrical switching and memory phenomena in the Ag-BDCP thin film, 296
Photoconductivity
photoconductivity of CdTe films, 32
structural, optical and transport properties of Ag_2S films deposited chemically from aqueous solution, 217
Photodegradation
studies of photodegradation in hydrogenated amorphous silicon, 76
Photoelectrical properties
substrate temperature dependent photoelectrical and structural properties of a-Si:H deposited by hydrogen assisted chemical vapour deposition, 337
Photoelectron spectroscopy
the interactions of electrons with organized organic films studied by photoelectron transmission, 139
Physical vapour deposition
pulse deposition of Au on graphite, 212
Planarization
structure, properties and applications of phenyl-modified silicate films, 57
Plasma processing and deposition
UV–Vis absorption spectroscopic studies of plasma-polymerized m-xylene thin films, 108
Polyaniline
scanning force microscope studies of Langmuir–Blodgett polyaniline thin films, 268
Polymers
UV–Vis absorption spectroscopic studies of plasma-polymerized m-xylene thin films, 108
beam size and collimation effects in spectroscopic ellipsometry of transparent films with optical thickness inhomogeneity, 125
an anthracene-containing PMMA derivative for photoresist and channel waveguide applications, 150
scanning photothermal beam deflection imaging with and without contrast inversion on polymers for integrated optical application, 243
influence of the surface pressure of Langmuir–Blodgett films on the efficiency of organic electroluminescence, 334
post ambient refractive index
refractive index and adhesion of Al_2O_3 thin films obtained from different processes — a comparative study, 120
Pyrolysis
about the structural, optical and electrical properties of SnO_2 films produced by spray pyrolysis from solutions with low and high contents of fluorine, 1

Reaction kinetics
an anthracene-containing PMMA derivative for photoresist and channel waveguide applications, 150
Refractive index
refractive index and adhesion of Al_2O_3 thin films obtained from different processes — a comparative study, 120
Resistivity
surface resistance of thin Perovskite films — high-temperature superconductors and giant magnetoresistance manganites, 256
Ruthenium
multiple conduction behavior of $BaRuO_3$ thin film prepared by pulsed laser ablation deposition, 95

Scanning tunnelling microscopy
pulse deposition of Au on graphite, 212
Selenides
experimental evidence of the low-temperature formation of γ-In_2Se_3 thin films obtained by a solid-state reaction, 14
Semiconductor
photoconductivity of CdTe films, 32
Semiconductors
polyvinylalcohol film doped with CuCl nanoclusters, 254
Sensors
preparation and piezoresistive properties of reactively sputtered indium tin oxide thin films, 279
fabrication of a multilayer film containing cobalt phthalocyanine on the surface of a gold electrode based on electrostatic interaction and its application as an amperometric sensor of hydrazine, 291
Si
phase formation between codeposited Co–Ta thin film and single-crystal silicon substrates, 132
Silicon
interpretation of spectroscopic ellipsometry measurements of ultrathin dielectric layers on silicon: impact of accuracy of the silicon optical constants, 64
growth and characterization of silicon layers grown by liquid phase epitaxy on cast silicon and silicon sheet material, 160
interface formation during silicon deposition on noble metal substrates: A comparative AES study, 182
properties of furnace crystallized polysilicon films prepared by r.f. sputtering, 224
solid state reactions in cobalt/amorphous-silicon multilayer thin films, 309
Silicon carbide
the effect of microwave power on the deposition of boron-doped a-SiC:H films using the electron cyclotron resonance method, 155
Silicon doping
silicon doping of InP using modified flow rate modulation epitaxy, 147
Silicon oxide
interpretation of spectroscopic ellipsometry measurements of ultrathin dielectric layers on silicon: impact of accuracy of the silicon optical constants, 64
Silver
structural, optical and transport properties of Ag_2S films deposited chemically from aqueous solution, 217
electrical switching and memory phenomena in the Ag-BDCP thin film, 296
Sputtering
measurement of the striking force of Ar ions on the substrate during sputter deposition of a-Si:H thin films, 83
structural and electrical properties of Ni–Cu films deposited onto MgO(001) by d.c. biased plasma sputter deposition, 171
properties of furnace crystallized polysilicon films prepared by r.f. sputtering, 224
epitaxial growth of metals by sputter deposition, 315
the fabrication of dipped CdS and sputtered ITO thin films for photovoltaic solar cells, 325
elastic light scattering and electrochemical durability of electrochromic tungsten-oxide-based films, 330
Steel
cladding of chromium onto mild steel by low-pressure laser spraying, 45

Stress
effect of substrate on the structural and optical properties of chemical-bath-deposited CdS films, 176
Structural properties
extended X-ray absorption fine structure studies of zinc hydroxo-sulphide thin films chemically deposited from aqueous solution, 21
structure, properties and applications of phenyl-modified silicate films, 57
growth and characterization of silicon layers grown by liquid phase epitaxy on cast silicon and silicon sheet material, 160
molecular packing in new Langmuir–Blodgett systems investigated by X-ray specular reflectivity and grazing incidence X-ray diffraction, 272
structures and properties of copper thin films prepared by ion beam assisted deposition, 300
substrate temperature dependent photoelectrical and structural properties of a-Si:H deposited by hydrogen assisted chemical vapour deposition, 337
Sulphides
extended X-ray absorption fine structure studies of zinc hydroxo-sulphide thin films chemically deposited from aqueous solution, 21
production and evaluation of ZnS thin films by the MOCVD technique as alpha-particle detectors, 50
Superconductivity
surface resistance of thin Perovskite films — high-temperature superconductors and giant magnetoresistance manganites, 256
Surface morphology
the morphologies and the chemical states of the multiple zincating deposits on Al pads of Si chips, 36
growth and characterization of silicon layers grown by liquid phase epitaxy on cast silicon and silicon sheet material, 160
Surface pressure
influence of the surface pressure of Langmuir–Blodgett films on the efficiency of organic electroluminescence, 334
Surface roughness
roughness analysis of optical films and substrates by atomic force microscopy, 8
Tin oxide
about the structural, optical and electrical properties of SnO_2 films produced by spray pyrolysis from solutions with low and high contents of fluorine, 1
fabrication and characterization of ITO thin films deposited by excimer laser evaporation, 248
Titanium nitride
Mössbauer investigations of (Ti,Fe)N hard coatings, 198
Transmission electron microscopy
experimental evidence of the low-temperature formation of γ-In_2Se_3 thin films obtained by a solid-state reaction, 14
TEM study of electrodeposited Ni/Cu multilayers in the form of nanowires, 86
Transmission electron microscopy (TEM)
structural and electrical properties of Ni–Cu films deposited onto MgO(001) by d.c. biased plasma sputter deposition, 171
Tungsten oxide
elastic light scattering and electrochemical durability of electrochromic tungsten-oxide-based films, 330
Tunnelling
photoconductivity of CdTe films, 32

X-Ray absorption
extended X-ray absorption fine structure studies of zinc hydroxo-sulphide thin films chemically deposited from aqueous solution, 21
X-ray diffraction
preparation and structural analysis of Langmuir–Blodgett films of acidic and zwitterionic phospholipids, 262
epitaxial growth of metals by sputter deposition, 315
X-ray scattering
molecular packing in new Langmuir–Blodgett systems investigated by X-ray specular reflectivity and grazing incidence X-ray diffraction, 272

Zinc
the morphologies and the chemical states of the multiple zincating deposits on Al pads of Si chips, 36
Zinc oxide
synthesis and optelectronic characterization of gallium doped zinc oxide transparent electrodes, 29
sol–gel synthesis of ZnO thin films, 112